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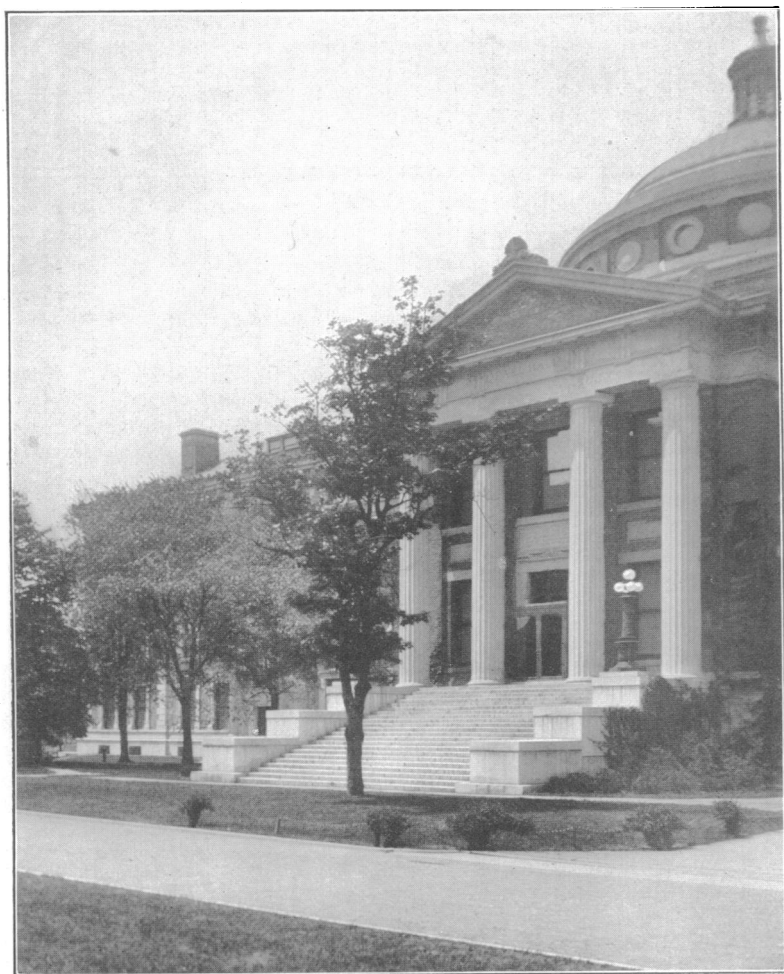
ON THE COLUMBIA UNIVERSITY CAMPUS

ings of the university. The growth of Teachers College, whose students number over 2,000, is especially notable. The section of education of the association, which was established at the New York meeting ten years ago, will hold its sessions there. The beautiful new buildings of the Union Theological Seminary, which is educationally affiliated with the university, are adjacent and will be the headquarters of the American Philosophical Association. The other educational and scientific institutions of New York City have grown at the same rate as Columbia University. New York University has been established in a beautiful site, overlooking the Harlem river. One of the notable events of the meeting of the association ten years ago was the visit to the City College, which had just moved into its magnificent new buildings. The American Museum of Natural History has notably enlarged both its buildings and its collections. The Botanical Garden and the Zoological Park have become institutions almost unrivalled.

PROGRAM OF THE MEETINGS

PERHAPS the best idea of the magnitude of the meeting of the American Association and its affiliated societies can be given by abridging from the preliminary program some account of the sessions as grouped under the sections and the special societies related to them. This can by the nature of things be little more than a list of societies and of names. It will, however, give some idea not only of the present convocation week meeting but also of the organization of science in this country.

At the opening general session on the evening of December 26 at the American Museum of Natural History, Dr. Charles R. Van Hise, president of the University of Wisconsin, will preside, and Dr. W. W. Campbell, director of the Lick Observatory, will give the address of the retiring president on "The Nebulæ." After the address there will be a reception to the members of the Association and affiliated societies by the president and the trustees of the museum.



EARL HALL. Registration Headquarters of the American Association

Section A, Mathematics and Astronomy, will hold a general session, which will include the address of Professor Armin O. Leuschner, of the University of California, on the "Derivation of Orbits." *The American Mathematical Society*, the *Mathematical Association of America*, and the *American Astronomical Society* will meet in affiliation with the section.

Section B, Physics, will listen to the address of Professor Percival E. Lewis, of the University of California, on "Recent Progress in Spectroscopy."

Papers on physics will be on the program of the *American Physical Society*, but there will be a general-interest session held jointly with Section C and the *American Chemical Society*. The *Optical Society of America* will meet in affiliation with the section.

Section C, Chemistry, will have as its vice-presidential address, "Asymmetric Syntheses and their Bearing upon the Doctrine of Vitalism," by Professor William McPherson, of the Ohio State University. Sections B and C, in conjunction with the *American Chemical*

Society and the *American Physical Society*, will hold joint sessions on "The Structure of Matter." On Thursday evening, at the American Museum of Natural History, Professor A. A. Noyes, of the Massachusetts Institute of Technology, will give one of the lectures complimentary to the citizens of the city on "Nitrogen and Preparedness." This lecture will be followed by a reception and a chemical exhibit.

Section D, Engineering, will hold a session in the Engineering Societies Building, on the invitation of the American Society of Civil Engineers, the American Institute of Mining Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers. At this meeting, Dr. Bion J. Arnold will give the address of the retiring chairman, and there will be addresses by representatives of the engineering societies, followed by a reception to engineers and those working in sciences related to engineering. Section D will hold a joint session in the assembly hall of the *Automobile Club of America*, with the *National Highways Association*, the *Automobile Club of America*, and the *National Automobile Chamber of Commerce*. There will also be joint sessions with the *Society for the Promotion of Engineering Education*.

Section E, Geology and Geography, will have a special program by State geologists on the geology of their respective states. *The Association of American Geographers* will hold its meetings following those of the geologists. The address of the president, Professor Mark Jefferson, of the Michigan State Normal College, will be on "The Geographic Provinces of the United States."

Section F, Zoology, will hold its meetings with the *American Society of Zoologists* and the *American Society of Naturalists*. Professor Vernon L. Kellogg, of Stanford University, will give the address of the retiring chairman.

A dinner in honor of Professor E. B. Wilson, a past-president of the association, will be given at the Hotel Manhattan by his former students and colleagues. *The Entomological Society of America* will have an address by the retiring president, Professor T. D. A. Cockerell, on "Fossil Insects." *The American Association of Economic Entomologists* will listen to an address by the president, Dr. C. Gordon Hewitt, of the Dominion Experimental Farm at Ottawa.

Section G, Botany, will hold a general-interest session at which the address of Professor William A. Setchell, of the University of California, on "The Geographic Distribution of the Marine Algæ," will be given. This will be followed by a symposium on the relations of chemistry to botany, a joint session with the *American Botanical Society*, the *American Phytopathological Society*, and the *Ecological Society of America*. A dinner for botanists will be given at the Hotel McAlpin, at which the address of Professor John M. Coulter, the retiring president of the *Botanical Society of America*, on "Botany as a National Asset," will be given.

The American Society of Naturalists will hold a symposium on "Biology and National Existence," with papers by Stewart Paton, W. J. Spillman, Vernon L. Kellogg, Jacques Loeb, and Edwin G. Conklin. After the dinner at the Hotel Manhattan Professor Raymond Pearl, of the Maine Experiment Station, will give the presidential address. *The New York Zoological Society* will entertain at the New York Aquarium the members of the Society of Naturalists and related societies on the evening of December 27. *The American Genetic Association* will have an important program.

Section H, Anthropology and Psychology, will refer special papers to the *American Anthropological Association* and the *American Psychological Association*. The address of the retiring

Chairman, Professor Lillien J. Martin, of Stanford University, will be on "Personality as revealed by the Content of Images." *The American Anthropological Association*, under the presidency of Dr. F. W. Hodge, of the Bureau of American Ethnology, will meet at the American Museum of Natural History. In affiliation with it will meet the *American Folk Lore Society*, the address of whose president, Dr. Robert H. Lowie, of the American Museum of Natural History, will be on "Oral Tradition and History." *The American Psychological Association* celebrates the twenty-fifth anniversary of its foundation with historical papers by G. Stanley Hall, J. McKeen Cattell, Joseph Jastrow, and John Dewey. The address of the president, Professor Raymond Dodge, of Wesleyan University, on "The Laws of Relative Fatigue," will be followed by a smoker. The annual dinner will be at the Hotel Marseilles. The association will hold a joint session with the section of education on Friday. *The American Philosophical Association* will meet at the Union Theological Seminary, adjacent to Columbia University.

Section I, Social and Economic Science, will listen to an address on "Scientific Efficiency and Industrial Museums, our Safeguards in Peace and War," by Dr. George F. Kunz, of New York. The programs of the section will consider the metric system, the national thrift movement, and the effect of peace on our economic conditions. There will be a meeting treating "Insurance" in the Metropolitan Auditorium, Madison Square.

Section K, Physiology and Experimental Medicine, will meet at the American Museum of Natural History on Friday afternoon. Professor Frederic P. Gay, of the University of California, will make an address on "Specialization and Research in the Medical Sciences" and there will be a symposium on "Cancer and its Control," taken part in by Gary N. Calkins, Leo

Loeb, J. C. Bloodgood, James Ewing and E. C. Lakeman. This will be a joint meeting with the *American Society of Bacteriologists*. The Federation of American Societies for Experimental Biology, consisting of the *American Physiological Society*, the *American Society of Biological Chemists*, the *American Society for Pharmacology and Experimental Therapeutics*, and the *American Society for Experimental Pathology*, will meet at the Cornell Medical College. There will be dinners on Thursday and Friday evenings. The *American Association of Anatomists* will hold its meetings in the anatomical laboratories of three medical schools of the city, under the presidency of Professor Henry H. Donaldson, of the Wistar Institute. Dr. Simon Flexner, director of the laboratories of the Rockefeller Institute for Medical Research, will give one of the public lectures before the association on "Infantile Paralysis and the Public Health."

Section L, Education, will have, as the vice-presidential address, "Some Obstacles to Educational Progress," by Professor Ellwood P. Cubberley, of Stanford University. The section will have discussions on educational tests and measurements, research problems, and administrative problems. *The American Nature Study Society* and the *School Garden Association of America* are among the societies meeting with the association. *The Society of the Sigma Xi* will hold its annual convention at Columbia University on the afternoon of Wednesday, with its dinner in the evening, at which there will be an address by the president, Dr. Charles S. Howe, president of the Case School of Applied Science. *The American Association of University Professors* will meet at Columbia University on Friday and Saturday, with a dinner at the Hotel Astor on Friday evening.

Section M, Agriculture, will meet Wednesday. The address of the retir-

ing vice-president, Dean Eugene Davenport, of the University of Illinois, will be on "The Outlook for Agricultural Science." This address will be followed by a symposium on the same subject, which will be taken part in by H. J. Wheeler, J. C. Lipman, G. F. Warren, and B. Youngblood. *The Society for Horticultural Science*, and *The Association of Official Seed Analysts* will meet at Columbia University in affiliation with the section

SCIENTIFIC ITEMS

WE record with regret the death of Dr. Hugo Münsterberg, the distinguished German psychologist, professor at Harvard University since 1892; of Sir Hiram Stevens Maxim, the well known inventor; of Henrik Mohn, the Norwegian meteorologist; and of Dr. Oskar Backlund, the eminent director of the Imperial Observatory at Pulkova, Russia.

A BUST of John Muir was unveiled at the University of Wisconsin on the evening of December 6. The bust was presented by Mr. T. E. Brittenham to the university where Muir was a student for four years. Dean E. A. Birge

presided, and addresses were made by Regent Charles H. Villas and President Charles R. Van Hise.

THE president and council of the Royal Society have made the following awards: A Royal Medal to Dr. John Scott Haldane, F.R.S., for his services to chemical physiology, more especially in reference to the chemical changes of respiration. A Royal Medal to Professor Hector Munro Macdonald, F.R.S., for his contributions to mathematical physics. The Copley Medal to Sir James Dewar, F.R.S., for his investigations in physical chemistry, and more especially his researches on the liquefaction of gases. The Rumford Medal to Professor William Henry Bragg, F.R.S., for his researches in X-ray radiation. The Davy Medal to M. le Prof. Henri Louis le Chatelier, For.Mem.R.S., for his researches in chemistry. The Darwin Medal to Professor Yves Delage, for his researches in zoology and botany. The Sylvester Medal to M. Jean Gaston Darboux, For.Mem.R.S., for his contributions to mathematical science. The Hughes Medal to Professor Elihu Thomson for his researches in experimental electricity.